

**Proposals Submitted  
March 1, 2007  
Funded Projects**

Grant Recipient		Project Title	Amount Funded	
#08-03	Bruce McLeod Montana State University Bozeman	A Proposal to Develop a Non-Invasive Clinical Device that is Effective in Clearing Persistent Infections in Prosthetic Knee Implants	FY2008	\$ 74,442
			FY2009	\$ 72,042
			Total	\$ 146,484
#08-04	Richard Bridges University of Montana Missoula	Enhancement of Applied Translational Research in Biomedicine	FY2008	\$ 225,000
			FY2009	\$ 225,000
			Total	\$ 450,000
#08-06	William Suckow AdvR, Inc. Bozeman	Developing a High-Power, Fiber Coupled, Electro-Optic Amplitude Modulator	FY2008	\$ 146,348
			FY2009	\$ -
			Total	\$ 146,348
#08-09	Jim Beck Sunburst Sensors, LLC Missoula	Precision Absorbance Colorimetric Sensor (PACS)	FY2008	\$ 74,710
			FY2009	\$ 72,600
			Total	\$ 147,310
#08-12	Lee Arbuckle Arbuckle Ranch, Inc. Billings	Research on Native Grass Seed Morphology to Guide Development of Core Technologies of the Arbuckle Native Seedster <i>Production Agriculture</i>	FY2008	\$ 30,644
			FY2009	\$ -
			Total	\$ 30,644
#08-15	Alex Philip TerraEchos, Inc. Missoula	Research, Development, Test and Evaluation of Adelos System	FY2008	\$ 200,000
			FY2009	\$ 200,000
			Total	\$ 400,000
#08-17	Edward Dratz Montana State University Bozeman	A New Approach to Discovering Biomarkers for Health and Disease Diagnosis in the Peptidome using Zdyes	FY2008	\$ 200,000
			FY2009	\$ 200,000
			Total	\$ 400,000
#08-19	Gene Kuntz ILX Lightwave Corporation Bozeman	Zero Voltage Switching Research	FY2008	\$ 159,673
			FY2009	\$ -
			Total	\$ 159,673

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#08-20	Kristian Merkel S2 Corporation Bozeman	S2 Material Based Frequency Stable Laser (S2-FSL) Technology Development for Coherent Optical Communications	FY2008	\$	250,037
			FY2009	\$	-
			Total	\$	250,037
#08-26	David Bowen Big Sky Carbon Sequestration Partnership Montana State University Bozeman	Innovative Commercialization Strategies for Clean Coal and Geologic Carbon Sequestration in Montana	FY2008	\$	156,753
			FY2009	\$	-
			Total	\$	156,753
#08-27	Joyce Eckhoff MSU Eastern Agricultural Research Center Sidney/Bozeman	Durum with Low-Cadmium Uptake for Production in Montana  <i>Production Agriculture</i>	FY2008	\$	54,000
			FY2009	\$	-
			Total	\$	54,000
#08-34	Jean Starkey Montana State University Bozeman	Image-Guided Photodynamic Therapy to Sanitize Breast Cancer Draining Lymph Nodes	FY2008	\$	118,500
			FY2009	\$	-
			Total	\$	118,500
#08-35	Mikhail Drobizhev Montana State University Bozeman	Genetically Engineered Biophotonic Nanoprobes for Two- Photon Microscopy	FY2008	\$	99,200
			FY2009	\$	-
			Total	\$	99,200
#08-43	Victoria Carollo Montana State University Bozeman	Identifying Genes Conferring Enhanced Cellulosic Ethanol Production Potential for Barley Straw and Forage  <i>Production Agriculture</i>	FY2008	\$	68,200
			FY2009	\$	-
			Total	\$	68,200
#08-44	Kevin Repasky Montana State University Bozeman	Unmanned Aerial Vehicle Deployment of Hyperspectral Imaging Spectrometers for Noxious Weed Mapping and Carbon Sequestration Site Monitoring	FY2008	\$	68,370
			FY2009	\$	68,520
			Total	\$	136,890
#08-45	W. Randall Babbitt Montana State University Bozeman	Broadband Direct Digital Conversion with Spatial Spectral Holographic Technology	FY2008	\$	149,478
			FY2009	\$	-
			Total	\$	149,478

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#08-48	Gregory Gillispie Fluorescence Innovations, Inc. Bozeman	Collaborative Research Applications of Innovative Protein Fluorescence Lifetime Spectrometer	FY2008	\$	210,000
			FY2009	\$	165,000
			Total	\$	375,000
#08-49	Kirk Hartel Fluorescence Innovations, Inc. Bozeman	Development of a Universal Kinase Assay for Ultra High- Throughput Screening in Drug Delivery	FY2008	\$	105,000
			FY2009	\$	-
			Total	\$	105,000
#08-52	Robert Seccomb Bee Alert Technology, Inc. Missoula	Sonographic Analysis for Rapid Detection of Varroa Mites and Other Pathologies Without Opening the Beehive  <i>Production Agriculture</i>	FY2008	\$	80,000
			FY2009	\$	-
			Total	\$	80,000
#08-56	Manfred Biermann Resodyn Corporation Butte	Conduct and Complete Research and Development of a Novel and Sustainable Technology for Making Cellulosic Biobutanol Advanced Biofuel from Montana Wheat Straw	FY2008	\$	202,500
			FY2009	\$	202,500
			Total	\$	405,000
#08-58	Richard Donovan Montana Tech Butte	Design of Ultra High Pressure Water Jet Cutting Pump	FY2008	\$	198,476
			FY2009	\$	-
			Total	\$	198,476
#08-59	David Poulsen Montana Neuroscience Institute/UM Missoula	Preclinical Development of Low Dose Methamphetamine as a Neuroprotective Agent	FY2008	\$	141,236
			FY2009	\$	-
			Total	\$	141,236
#08-66	Jeff Golini All American Pharmaceutical Billings	Second Stage Field Clinical Trials & Bringing to Market of a Natural OTC ("Kre-Celazine") to Address Chronic Inflammation	FY2008	\$	139,763
			FY2009	\$	-
			Total	\$	139,763